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United States Department of Agriculture Regulatory Analysis and Development, PPD APHIS Station 3C71 4700 River Road, Unit 118 Riverdale, Maryland 20737-1238

RE: National Animal Identification System; Draft Strategic Plan and Draft Program Standards
Docket No. 05-015-2
70 Fed. Reg. 29269 (May 20, 2005)

The Center for Science in the Public Interest (CSPI) appreciates this opportunity to comment on the Department of Agriculture's (USDA) Draft Strategic Plan and Draft Program Standards for the National Animal Identification System. CSPI is a non-profit consumer advocacy and education organization that focuses largely on food safety and nutrition issues. It is supported principally by the 900,000 subscribers to its *Nutrition Action Healthletter* and by foundation grants.

Summary

CSPI has long advocated a national animal identification system (NAIS) in the United States. CSPI shares the agency's goal of a uniform identification system that is able to make use of the newest and most effective technology. However, CSPI has continually stated that this NAIS program needs to be mandatory and needs to be implemented much sooner then the

agency's target of 2009. The foregoing recommendations are discussed more fully below and in the attached report.¹

A Mandatory Identification System is Necessary to Successfully Monitor and Control Animal Disease

The investigation into BSE-infected cattle in the U.S. is severely hampered by the lack of a NAIS program as demonstrated by the recent BSE-positive cow. Once tests confirmed that the cow was positive for BSE, the investigation began to identify the source and birth herd of the animal, the age of the animal, and any infected herd-mates and offspring.² It took nearly a week for USDA to identify the source herd and begin testing other potentially positive herd mates.³ Today, months after the BSE-positive animal was initially tested, USDA can say only that the animal is "around 12 years old," based on records from the farmer that simply give a 3 year range of the age of the animal.⁴

In order to more quickly and accurately identify potentially infected cattle, USDA needs to adopt a mandatory identification system. This system needs to be in place much sooner than the current target of 2009. Without such a system in place, American consumers face uncertainty about the state of the cattle population. Countries that have implemented mandatory tracking systems, such as New Zealand, Australia and Canada, to name a few, do not have to

¹ See CSPI, Name that Cow: U.S. BSE Precautions and Trade with Canada (March 2005).

² USDA, News Release, *USDA Announces BSE Test Results And New BSE Confirmatory Testing Protocol* (Washington, DC, June 24, 2005).

³ USDA, News Release, USDA Chief Veterinarian John Clifford Regarding the Epidemiological Investigation into the Recently Confirmed BSE Case (Washington, DC, June 29, 2005).

⁴ DeHaven, W. Ron, APHIS Administrator, Meeting with Safe Food Coalition, Washington, DC, July 12, 2005.

deal with such uncertainty. In the United Kingdom, which established a cattle tracking system in 1998, the government can trace an animal to its birth herd "in a matter of seconds."⁵

A mandatory NAIS program is also urgently needed to control other animal disease hazards such as foot-and-mouth disease. Foot-and-mouth disease (FMD) is a severe, highly contagious viral disease that affects mainly cattle and swine. FMD, because it spreads so widely and rapidly, can have grave economic and clinical consequences. FMD occurs in many parts of the world. While there has not been an outbreak in the U.S. since 1929, the risk of accidental introduction to the U.S. livestock industry is always present. Because FMD is one of the most difficult animal infections to control, a single FMD-positive cow entering a feedlot can infect thousands of cattle in a short time. Under the current identification system, the U.S. has no way to trace the sentinel case thus leaving the livestock industry vulnerable.

A mandatory NAIS program is also necessary to address the ever growing bioterrism threats. In 2005, agriculture exports will reach approximately \$59 billion, making 2005 the third highest export sales year ever in U.S. history. Agriculture Secretary Mike Johanns has stated "terrorism is real, whether it's domestic or foreign, and we need to do everything we can to be prepared." He has also stated that "agro-terrorism definitely has the potential to harm our food and agriculture system, our economies, and in some cases the health of our people." However,

⁵ Brewin, Bob, "US Lags Beef Exporter Nations in Developing Cattle ID System," *Computer World*, quoting Tony McDougal, spokesman for US Department of Environment, Food and Rural Affairs (December 30, 2003).

⁶ USDA, Fact sheet, Foot-and-Mouth Disease (January 2002).

⁷ Id.

⁸ USDA, Transcript of Remarks, *Remarks by Agriculture Secretary Mike Johanns At the International Symposium on Agro-Terrorism*, (Kansas City, Missouri, May 3, 2005).

⁹ Id.

¹⁰ Id.

without a mandatory NAIS program, it is nearly impossible for USDA to monitor and secure our food source. Because of this, USDA needs to immediately implement a mandatory NAIS program so that U.S. consumers can have faith that our government is doing all that it can to provide a safe food supply.

CSPI, while it understands that the USDA desires a NAIS program to be used for animal disease tracking, believes that this will also be beneficial for food safety reasons, as evidenced by the most recent BSE incident. CSPI's recent report, *Name That Cow*, summarizes the necessity of a mandatory NAIS program, the importance to U.S. consumers of that system, and how other countries have achieved this goal. The report is attached to these comments.

Conclusion

Because of the importance of the ability to track BSE-infected animals, CSPI believes that USDA should make the NAIS program mandatory which would greatly enhance its effectiveness in protecting human and animal health and build consumer confidence in U.S. beef at home and abroad.

Such a system would be consistent with USDA's goal of tracking and preventing animal disease outbreaks and protecting our agricultural and food systems against terrorist attacks, major disasters and other emergencies. CSPI urges USDA to implement a mandatory NAIS program and do so before the target of 2009.

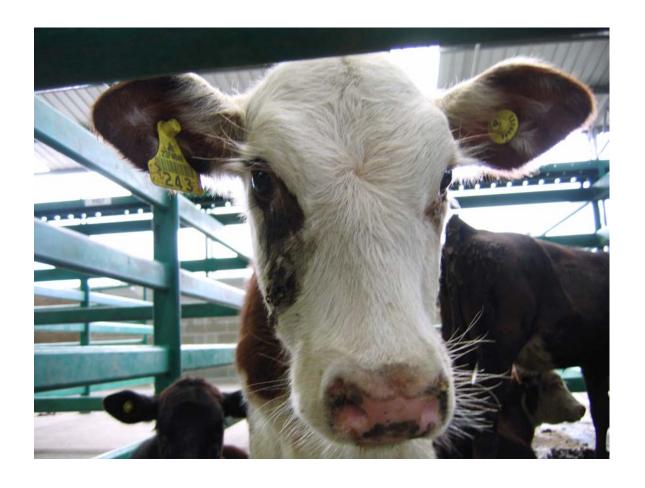
Respectfully submitted,

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NAME THAT COW



U.S. BSE PRECAUTIONS AND TRADE WITH CANADA

Center for Science in the Public Interest March 2005 Name That Cow: U.S. BSE Precautions and Trade with Canada was researched and written by Caroline Smith DeWaal, Linda McIntyre and Giselle Hicks. We gratefully acknowledge the assistance of Michael F. Jacobson, Ken Kelly and Karen Knispel in preparing this report. Center for Science in the Public Interest (CSPI) is a non-profit organization based in Washington, D.C. Since 1971, CSPI has been working to improve the public's health, largely through its work on nutrition and food-safety issues. CSPI is supported primarily by the 900,000 subscribers to its Nutrition Action Healthletter and by foundation grants.

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EXECUTIVE SUMMARY

Despite the discovery of bovine spongiform encephalopathy (BSE) in four Canadian cattle, including one found in the United States, allowing young Canadian cattle to enter the United States does not pose a risk to consumers. In fact, Canada's national mandatory cattle identification system makes it much easier to track cattle between the farm of origin and the slaughter plant. The United States has no mandatory national system.

American cattle producers have enjoyed higher cattle prices since Canadian cattle were banned in May 2003, but public health concerns do not justify keeping the border closed to cattle age 30 months and younger. Instead, American producers should urge USDA to adopt a mandatory animal identification system that is at least as effective as Canada's system. That, together with a national tracking system, would mean that disease outbreaks can be quickly and effectively contained, consumer confidence can be sustained, and export markets successfully pursued. It would do far more to prevent infected cattle from ending up in the food or feed chain than banning young Canadian cattle from the United States.

The animal identification and tracking system in Canada has allowed that country to rapidly identify the origin of animals found to be infected with BSE, identify and test other animals that may have been exposed to the disease, and give timely status reports to the public.

To address BSE in North America:

- The United States should move quickly to implement a national mandatory system requiring all cattle to bear ear tags or other visible identification, indicating the farm of origin and the year of birth.
- The feed bans in place in both the United States and Canada should be strengthened to ban all high-risk cattle parts from being used in animal feed and pet food.
- The United States and Canada should prohibit spinal columns and neck bones from cattle of all ages—not just from those over 30 months—from machines used to separate meat from bone.
- Spinal cord should be banned from other human food.
- The United States should finalize, and Canada should implement, a ban on downer cattle entering the food supply.

INTRODUCTION

In May 2003, the Canadian government announced that it had found in Alberta, Canada its first native cow infected with BSE, or mad cow disease.^a Immediately, the United States, like many other nations, closed its borders to Canadian beef and cattle exports. Those precautions were meant to protect the cattle and food supply in the United States. Similar steps had been taken against the United Kingdom, Japan, and other countries that had discovered BSE in their cattle herds.

In December 2003, the U.S. Department of Agriculture (USDA) announced the discovery of the first case of BSE in the United States. The cow was found in Washington state, but had been imported from Canada in 2001. Other countries quickly closed their borders to U.S. beef and cattle imports.

After the first BSE-infected cow was discovered, the Canadian government announced a series of measures to protect the human food supply and animal feed, including a traceback of the infected cow's origin and a traceforward to determine how its remains were rendered and processed.^c Later in 2003, the government announced that it would require the beef industry to remove specified risk materials (SRM), tissues that can carry the infectious agent for BSE, from cattle at slaughter.d After the U.S. case was discovered, USDA also announced a ban on SRM in human food

Table 1: Timeline of BSE Safeguards in the U.S. and Canada Italics indicate proposed safeguards

BSE Safeguards	U.S.	Canada
Import ban imposed on U.K. cattle	1989	1990
Import ban imposed on cattle from all countries where BSE has been detected in native cattle	1989	1994
Feed ban Ruminant protein banned from ruminant feed	1997	1997
Mandatory animal ID and tracking system		2001
Specified Risk Materials (SRM) removal From cattle at slaughter From human food From animal food (strengthening of feed ban)		2003 2003 2004
Enhanced BSE surveillance	2004	2004
"Downer" cattle banned from human food chain	2004	

and other new precautions, e (See Table 1. f)

Until BSE changed the landscape of the beef trade in North America, cattle were freely traded between the United States and Canada. The United States was a major importer of both beef and cattle, mostly from Canada and Mexico.^g In 2002, the year before the border with Canada was closed, the United States imported nearly 1.7 million cattle from Canada.^h

Infected feed is considered the primary root of BSE transmission among cattle. If infected feed

In 2002, the year before the border with Canada was closed, the United States imported nearly 1.7 million cattle from Canada.

was produced in Canada in the mid-1990s, as most experts suspect, closing the border to Canadian cattle in 2003 came too late to prevent the transfer of the disease. Feed was also traded between the United States and Canada during this time period. Thus, cattle possibly exposed to BSE-infected feed have long been entering slaughter and rendering plants in the United States, with meat going into grocery stores and restaurants. The key to protecting the human food supply is through strong safeguards against high-risk cattle parts, like brain, spinal cord, and the distal ileum, entering meat products.

In late 2004, the USDA declared plans to reinstate U.S. trade in beef and cattle with Canada. The agency had developed a new policy for designating

"minimal-risk regions" for BSE, and Canada was the first country deemed to meet those criteria. Government officials in both countries announced that U.S.-Canada beef trade would resume in early March 2005.

Immediately after, however, the Canadian Food Inspection Agency (CFIA) confirmed two new cases of BSE, one in a cow born in 1998, after Canada's feed ban had been implemented.^k Canadian officials believe that that animal probably became infected through feed that was produced before the feed ban took effect.¹

This new case, however, raised concerns among some in the U.S. cattle industry and their supporters in Congress about the wisdom of re-opening the border to Canadian cattle. Some industry and non-profit groups even claimed that resuming beef trade with Canada would endanger public health.^m Heavy news coverage of mad cow disease has raised the profile of the new import policy and contributed to the perception that young cattle coming from Canada could somehow endanger American consumers.

While the new BSE cases are troubling, they are not unexpected. If these cases were caused by contaminated feed circulating in North America in the 1990's, then many cattle were likely exposed to it during the same time period. While most cattle are slaughtered when they are young and before the infection spreads, dairy cows and other older animals are just reaching the age when the infection could appear. USDA's February 2005 technical assessment supports the Canadian position that these cases are related to consuming infected feed produced prior to 1997 and do not reflect an on-going problem.ⁿ The United Nations' Food and Agriculture

4 Organization (FAO) agreed that the recent cases were "isolated incidents" that should not alarm consumers. o

It is fortunate that, despite the free trade in cattle across North America, most of the infected cows have been discovered in Canada, where an animal tracking system had been instituted before BSE was discovered. The Canadian system for animal identification allows Canada to easily trace the history of cattle infected with BSE. Indeed, the Canadian system for mandatory identification and traceability is far superior to the preliminary steps taken by the U.S. government toward establishing a system that is only voluntary.

BANNING CANADIAN CATTLE UNDER 30 MONTHS OF AGE HAS NO MEANINGFUL IMPACT ON PUBLIC HEALTH

USDA's new "minimal risk" policy would allow into the United States only Canadian cattle (and

beef from cattle) 2.5 years of age or younger.^p The vast majority of cases, including all of those found in North America, have occurred in much older cattleat least 6 years old.^q Also, Canadian cows coming into the United States under the new rule were born long after the 1997 Canadian

Table 2: Comparison between the Ages of the BSE-Positive Cattle and the Ages of Cattle Eligible for Importation into the U.S. from Canada

Confirmed BSE Cases	Date of Birth	Age
May 20, 2003; Alberta, Canada	March 1997	6 years
Dec 23, 2003; Washington State, U.S. (imported from Alberta, Canada in 2001)	Apr 9, 1997	6.7 years
Jan 2, 2005; Alberta, Canada	Oct 5, 1996	8 years
Jan 11, 2005; Alberta, Canada	Mar 21, 1998	6.75 years
Cattle eligible for importation into the U.S. from Canada	After Oct 2002	2.5 years or less

feed ban was put in place. (See Table 2.)

Under the new policy, only Canadian cattle born in 2002 or later would be eligible for importation to the United States. There is little chance that those younger cattle would be exposed to contaminated feed. After 1997, animal feed was required by law to have labeling

What is the likely risk to human health?

The risk of Americans developing vCJD due o occasional BSE-infected cattle entering he food supply, based on the British experience appears to be minuscule. Though no U.S.-born and only four Canadian nfected cows have been discovered, let's assume that 100 infected animals got into he U.S. food supply. That's one animal per 3 million people. In the United Kingdom, 3.3 nillion animals infected with BSE were consumed by the population of 60 million people, or about one animal per 18 people. Thus, British consumers may have been exposed to meat from BSE-infected cattle 164,000 times more frequently than American consumers.

The far heavier British exposure has led to about 160 deaths. If risk is proportional to exposure, then the minimal (if any) exposure n the United States means the public health isk is truly minute.

While precautions are important when it comes to protecting the food supply from 3SE, that foodborne threat pales in comparison to *Salmonella*, which each year sickens an estimated 1.3 million Americans and kills some 550, according to the Centers or Disease Control and Prevention, let alone he tens of thousands of people who die prematurely from heart disease linked to the saturated fat in beef.

indicating whether it was intended for consumption by cattle and other ruminants. Feed with bovine material in Canada was specifically labeled, "Do not feed to cattle, sheep, deer or other ruminants." In addition, feed produced prior to 1997 would likely have been used up or spoiled in the intervening years.

The Canadian government recently proposed further tightening of its feed ban, including prohibiting all SRM in animal feed and pet food, in order to diminish the potential for cross-contamination of animal feeds in the production and distribution chains.^s

The Canadian government should take that additional step, as should the U.S. government. But consumers should remember that the risk of contracting the human form of BSE is exceedingly small. (See box.^t) In Britain, where 180,000 cattle were diagnosed with BSE and beef-eating consumers were likely exposed to an estimated 3.3 million BSE-infected cattle which entered the human food supply, u only about 160 people contracted the human form of the disease called Variant Creutzfeldt-Jakob Disease (vCJD). While the disease is horrible and inevitably fatal, it is nevertheless quite rare, even in Britain. In North America, BSE is a much greater threat to the cattle and beef industries than to human health. The current controversy about importing cattle is much more about economics and trade than health.

Although opponents of reopening the borders with Canada have so far been successful in both the courts and with Congress, this policy is not providing

additional public health protection from BSE. The Ranchers-Cattlemen Action Legal Fund, United Stockgrowers of America (R-CALF-USA) filed a lawsuit in January against USDA to keep the U.S.-Canadian border closed.^w R-CALF, which represents U.S. cattle producers in

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domestic and international trade and marketing issues, has opposed the resumption of beef and cattle imports from Canada, on the grounds that it would "expose U.S. consumers to increased risk of an invariably fatal disease associated with consumption of BSE-contaminated meat, will increase the risk of invariably fatal BSE infection in cattle in the United States, and will expose U.S. cattle producers to severe economic hardship." On March 2, 2005, the court stopped USDA from opening the border as planned.

Meat processors have filed their own lawsuits. In December 2004, their trade association, the American Meat Institute (AMI), filed a lawsuit against the USDA to completely reopen the beef trade between the United States and Canada. While self-interest is a motivation in the AMI's position (AMI members benefit from beef imports and lower beef prices), the group has buttressed its claims with data from mainstream science journals and studies. Nonetheless, the court recently rejected the AMI suit.

The U.S. Senate on March 3, 2005 approved a resolution to block USDA's plan to resume cattle imports from Canada in part to regain access to the Japanese market. However, the Japanese government has reportedly indicated that this Congressional action, initiated by R-CALF, could delay the reopening of Japan to U.S. beef. Dapanese consumers see

R-CALF stated that the resumption of beef and cattle imports from Canada will "expose U.S. consumers to increased risk of an invariably fatal disease associated with consumption of BSE-contaminated meat, will increase the risk of invariably fatal BSE infection in cattle in the United States, and will expose U.S. cattle producers to severe economic hardship."

the Canadian and U.S. cattle and beef industries as highly integrated and the debate here has raised their anxiety about beef from this region, according to Japanese officials.

CANADA'S ANIMAL IDENTIFICATION AND TRACKING POLICIES PROVIDE BETTER PROTECTION WHEN BSE IS DISCOVERED

Arguments against reopening the U.S. border to Canadian imports are often based on the assumption that the U.S. regulatory system for BSE protection measures is superior to the Canadian system. ^{cc} That assumption is off-base, particularly when it comes to tracking the history of infected cattle. Canada's national animal identification and tracking system was introduced in 2001, before the first native case of BSE was found. It has enabled officials there to quickly and thoroughly trace the history and movements of infected animals.

Cattle in the United States are not subject to any identification requirements, making traceback difficult and sometimes impossible. The USDA investigation that followed the discovery of a BSE-positive cow in December 2003 was frustrated by the lack of a national identification

system. The USDA was able to account for only 28 of the 80 head of cattle that came into the United States from Canada with the infected cow. dd

In Canada, however, where the two recent cases were confirmed earlier this year, officials were able to quickly identify the birth cohorts of the affected animals (cattle born on the farm of origin the 12 months before and after the birth of the affected animal) and trace and test surviving cattle. In the case confirmed on January 2, 2005, 135 animals were determined to have been in the birth cohort. Only nine of those cattle were still living, and all tested negative for BSE. In the most recent case of BSE, confirmed on January 11, 2005, 41 animals from the birth cohort were confirmed to be alive. All those cattle were slaughtered and tested for BSE, all with negative results. ^{ee} (See Table 3. ^{ff})

able 3: Proportion of Birth Cohort Herd Identified for Each of the Confirmed BSE Cases

rth cohort includes cattle born on the farm of origin within 12 months before and 12 months after the birth the affected animal.

Confirmed BSE Cases	Birth Cohort Size	Proportion of Birth Cohort Identified
May 20, 2003; Alberta, Canada	undetermined	undetermined
Dec 23, 2003; Washington State, United States Birth herd in Alberta, Canada Herd imported to United States in 2001 Animals imported & also from birth herd	57 81* 25	55 out of 57 29 out of 81 14 out of 25
Jan 2, 2005; Alberta, Canada	135	135 out of 135
Jan 11, 2005; Alberta, Canada	349	349 out of 349

Eighty other animals were imported into the United States from Canada in 2001 along with the cow later and to be infected with BSE. Twenty-five of these 81 animals in that shipment were identified as ginating from the Alberta, Canada birth herd of the BSE case. Of these 25 animals that entered the nited States from the birth herd in Alberta, Canada, only 14 were definitively identified by USDA.

An Interna tional Revie W Team conven ed by **USDA** that investi gated the **BSE** case in Washi ngton state urged

the United States to implement a national identification system. The committee noted that the absence of such a system "necessitated a more extensive tracing exercise than would otherwise have been necessary in order to identify cattle to be culled in accordance with international standards." Difficulties in traceback also forced the unnecessary destruction of all 449 bull calves at a U.S. feedlot, because one male offspring of the BSE-infected cow that had been sold to that feedlot could not be identified. Although USDA is in the process of establishing a national livestock identification program in the United States, the program is entirely voluntary.

In contrast, Canada has a mandatory national cattle identification system that was put in place on January 1, 2001, with full enforcement since 2002. Difference Cattle have to be fitted with a Canadian Cattle Identification Agency (CCIA) ear tag, including a visible unique number, bar code, and CCIA logo by the time they leave their herd of origin. If a health or safety problem with an animal arises, authorities can trace both forward from its herd of origin and backward from the last location of the animal. While the program was developed by the industry, the CFIA is responsible for enforcing it.

Difficulties in traceback also forced the unnecessary destruction of all 449 bull calves at a U.S. feedlot, because one male offspring of the BSE-infected cow that had been sold to that feedlot could not be identified.

Canada's program is monitored and upgraded periodically to take advantage of technological advances. For example, the CCIA has allowed the use of Radio Frequency Identification (RFID) ear tags. According to the CCIA, the use of RFID will speed data collection and the agency's ability to transfer information quickly and accurately. The CFIA is also improving the program by instituting stronger enforcement and improved linkages with provinces, territories, the cattle industry, and their trading partners. The control of the cont

Canada's modern animal tracking program was crucial to the government's successful efforts to quickly identify and test cattle that might have been exposed to animals infected with BSE or infectious feed.ⁿⁿ Sporadic new cases of BSE in North America underscore the importance of having an effective system that can track backwards in time.

USDA's decision to reopen the U.S. market to Canadian cattle and beef should have no adverse impact on public health. Instead, consumer concern should focus on the absence of a comparable national program for animal identification in the United States. Not only does this create greater risk to the public, it undermines the utility of Canada's traceback system, as it opens the door to U.S. farmers to remove the eartags from Canadian cattle to increase marketability. A Missouri cattleman, for example, recently found himself in possession of a "mystery herd." He had bought the cattle, which originally came from Canada, in Iowa, but they were delivered without their Canadian ear tags or health certificates. Following a USDA investigation, the seller and a veterinarian who removed the ear tags were both fined. That situation could have been avoided if the United States had had a comprehensive, mandatory identification system in place.

MANY OTHER COUNTRIES HAVE IMPLEMENTED ANIMAL IDENTIFICATION SYSTEMS

Responding to Animal Diseases ...

National animal identification systems are often implemented to protect against the spread of animal diseases, some of which also affect human health. Foot and mouth disease and bovine tuberculosis outbreaks have historically been controlled through the geographical containment and controlled movement of livestock, and sometimes the destruction of infected animals.

BSE is a relatively new animal disease. Since it was first identified in the United Kingdom in 1986, BSE has also spread to other European countries, such as Ireland, France, Germany, Portugal and Spain, as well as to Japan, through export of BSE-infected animals and/or BSE-contaminated feed ingredients.^{pp}

In response to animal-disease outbreaks, including BSE and foot and mouth disease, both the British government and the European Commission (the executive body of the European Union) have instituted mandatory identification and tracking systems. In Britain, where such a system

'n Britain, where such a system was put in place in 1998, Defra can trace an animal to its birth herd "in a matter of seconds."

was put in place in 1998, the Department of Environment, Food and Rural Affairs (Defra) can trace an animal to its birth herd "in a matter of seconds." The UK Cattle Tracing System program is funded almost entirely by the government; the only direct cost to producers is the ear tags. The European Union (EU) has its own identification and registration system to enhance consumer confidence in the safety of ruminant livestock, to protect public

health, and to reinforce stability in the livestock market. Shortly after birth, cattle, sheep, and goats are issued individual "passports" with their identification tag number, birth date, sex, breed or color, parents' tag numbers, farm of birth, and a list of all farms on which the animal has been

kept.^{tt} Those passports must accompany animals whenever they are moved.

In Japan, where the first case of BSE was confirmed in 2001, the government



The farmers attach ear tags to each animal, including a primary one with a barcode, visible animal number, and herd or participant code. A secondary tag is used in the other ear to identify the herd or participant code. Cattle can be sent to slaughter with only a primary tag.

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implemented a mandatory traceability program in 2003. ^{uu} The program was started as part of an emergency project to address a decline in beef consumption following disease outbreaks and food-labeling scandals. Eventually, Japanese farmers will bear the costs of tagging. ^{vv}

...And Meeting the Demands of the Global Markets

New Zealand implemented a mandatory animal identification system in 1999, with full implementation by 2001, to help control the movement of cattle from regions with bovine tuberculosis. We will be system has also proven important in audits of New Zealand's food-safety program by U.S. and EU officials. For example, New Zealand and other beef exporters must be able to identify cattle treated with hormones, as meat from those animals is allowed into the United States but barred from the European Union. Farmers pay for the tags and must identify cattle before they leave the farm. The government audits sale barns to ensure that all cattle moving through them have ear tags.

Australia, the world's largest beef exporter, is also implementing a comprehensive National Livestock Identification System to facilitate market access, allay consumer concerns about food safety, and minimize the impact of disease outbreaks and residue incidents.^{xx} The producer pays for the tags and applicators to fasten them on the animals.^{yy}



Brazil, another major beef exporter, has sought to position itself as an exporter of high-quality "natural" grass-fed beef. In April 2004, the Brazilian Ministry of Agriculture and its livestock export certification agency, seeking to meet European import requirements, contracted with a technology company to develop a national food safety tracing program for livestock. Brazil is aiming to have its entire herd registered by December 2007.

Argentina has established an Export Cattle Identification System that requires mandatory identification of every animal produced

for export. Because outbreaks of animal diseases, such as foot and mouth disease, have been major problems in Argentina, it would not be surprising to see the government broaden its traceability program to all cattle. bbb Even Uruguay, wanting access to the EU market, is moving toward a mandatory cattle identification system. ccc

U.S. CONSUMERS SHOULD ALSO REAP THE BENEFITS OF MANDATORY IDENTIFICATION AND TRACKING SYSTEMS

As several beef-producing countries have realized, one of the most important measures governments can take to ensure consumer confidence in their beef and access to global markets

is to implement a mandatory system of livestock identification and tracking. The U.S. government should follow their lead. Although USDA has been developing a National Animal Identification System (NAIS) for years, it has so far been viewed only as a voluntary program.

The goal of NAIS is to identify all animals and premises that have had contact with a foreign or domestic animal or disease within 48 hours after discovery of a disease. ddd However, if animal identification is not made mandatory, the system will not be enforceable and a significant number of potentially infected animals could escape identification.

A mandatory system also makes sense in light of the bioterrorism threat. As former Health and Human Services Secretary Tommy Thompson observed just before his departure, the U.S. food supply is vulnerable to attack on a range of fronts. The FDA pointed out in an October 2003 report to Congress that "sources of food contamination are as numerous and varied as the potential contaminants." ^{eee} Animal diseases such as foot and mouth disease are among those potential threats. In a 2003 report on food security, Secretary Veneman cited agricultural production as USDA's top priority in protecting our country from terrorism. ^{fff}

The U.S. beef industry likely would be the biggest beneficiary of an identification and traceback system. Since the 2003 discovery of BSE in the United States as well as the several Canadian cases, exports have plummeted, and the U.S. beef trade deficit has soared. ggg The economic

impact of the BSE case on the U.S. industry could have been substantially mitigated if a mandatory identification system had been in place in 2003. Most of the economic damage to the industry has resulted from the ban on U.S. beef imports to Japan and Korea. Japan had been the largest importer of U.S. beef. While Japan has expressed a willingness to resume importing U.S. beef from cattle under 20 months of age, the negotiations are stymied because, without a mandatory identification system, exporters cannot prove which cattle are eligible. hhh Instead, the United States determines the age of cattle by certain dental or bone features that appear when the cattle are about 30 months old. If the United States had a mandatory identification system, younger cattle could be easily identified and exported.

While Japan has expressed a willingness to resume importing U.S. beef from cattle under 20 months of age, the negotiations are stymied because, without a mandatory identification system, exporters cannot prove which cattle are eligible.

However, resistance from some industry groups has delayed

implementation of such a system. Congress debated traceability both in the context of country-of-origin food-labeling legislation—in which a mandatory identification system was specifically prohibitedⁱⁱⁱ—and the Public Health Security and Bioterrorism Preparedness and Response Act of 2002 (the Bioterrorism Act). In both of those debates, the cattle industry expressed concern

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about mandatory regulation.^{jjj} In a recent poll of subscribers to Meatingplace.com, a website that covers issues of concern to the meat and poultry industries, a mandatory national animal identification regulation was rated the number-one concern for 2005.^{kkk}

There appears to be growing support for animal identification and traceability among a diverse industry coalition, including small farmers and huge global food companies.

- Robin Giles, a Texas rancher who has been tagging his herd for years, told the *San Antonio Express-News* in January, "If the consumer does not have confidence in the food source, as far as I'm concerned, we're going to be out of business." "Ill
 - Oren Smith, president of the Washington (PA) County Cattlemen's Association and owner of a 100-head beef herd, told the *Pittsburgh Post-Gazette* in 2004, "I am in favor of following every animal through the system."
 - "With any of these outbreaks, the quicker we get a traceback, the better off we're going to be," Washington rancher Dick Coon told *The Seattle Times* last December. "From my point of view, it's just absolutely necessary to protect our industry."
 - The AMI, which represents packers and processors of beef and other meat products, has come out firmly for mandatory livestock identification as soon as possible. "Indeed, a mandatory program is essential given the potential damage that could occur if rapid traceback was not possible during an animal disease outbreak," the group said in September 2004 in its comments on proposed measures to mitigate BSE risks. "Moreover, the burdens that, at least conceptually, have been articulated about a mandatory system, e.g., potential product liability and confidentiality, pale in comparison to the risks the entire

animal agriculture system faces in the absence of a mandatory system and the benefits to animal agriculture if such a system was in place, particularly in the event of an animal disease outbreak."

• Perhaps most significant, in terms of its potential impact on the industry, was McDonald's Corporation's public position in favor of full identification and traceback. John Hayes, the giant restaurant company's senior director of U.S. food and packaging, told an industry conference in September 2004 that "animal identification is a core competency the industry has to develop." McDonald's set a goal for traceback of 10 percent of its beef by the end of 2004, a goal that was exceeded by early October of that year. The company has a "global goal" of 100 percent traceability, but has not yet announced a target date for meeting it."

'If the consumer does not have confidence in the food source, as far as I'm concerned, we're going to be out of business."

-Robin Giles, Texas rancher The timely establishment of a mandatory system could limit the economic impact of future disease outbreaks. It also makes economic sense on the individual level. As Washington rancher Dick Coon told *The Seattle Times*, he expects to profit from the tagging system he is using in a USDA-sponsored pilot project because it will be easier for him to gather and analyze information about his herd. Sess It would be worthwhile—for the cattle industry, meat processors and consumers—for the United States to adopt such a system.

CONCLUSION

There is no public health rationale for banning the importation of Canadian cattle that are 30 months and younger. The arguments against that policy are largely grounded in trade concerns: American cattle ranchers are getting a higher price for their cattle while the border remains closed.

The real danger to American consumers comes from the absence of a national system requiring that animals be individually identified. When a true food-safety problem arises, be it from BSE, *Salmonella*, or life-threatening *E. Coli* bacteria, it can be traced back to its source. Without this, the United States will not regain all of its export markets for beef products.

Aside from the animal identification and tracking issues, both the United States and Canada have implemented systems for preventing the occurrence and spread of BSE, but both systems could be strengthened. Both should implement recommendations of the international review teams to ban all high-risk cattle parts from animal feed and pet food. In addition, USDA and Canada should ban all spinal and neck bones from food production. Finally, USDA should finalize its ban on downer cattle in the food supply and Canada should implement a similar ban.

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NOTES

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U.K.: 60 million people/3.3 million infected cattle=18 people per infected animal

U.S.: 295 million people/100 infected cattle=2.95 million people per infected animal

Difference in exposure: 2.95 million people/18 people=163,888

U.K.: 160 vCJD deaths

U.S.: 160 U.K. vCJD deaths/163,888=0.000976 vCJD deaths.

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